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Exercise #2: Consider the two functions $f(x) = 5x + 7$ and $g(x) = 2x^2 + 1$.

(a) Calculate the average rate of change for both functions over the following intervals. Do your work carefully and show the calculations that lead to your answers.

(i) $-2 \leq x \leq 3$

$$f(x): \begin{aligned} f(-2) &= 5(-2) + 7 = -3 \\ f(3) &= 5(3) + 7 = 22 \\ \frac{\Delta f}{\Delta x} &= \frac{22 - (-3)}{3 - (-2)} = \frac{25}{5} = 5 \end{aligned}$$

(ii) $1 \leq x \leq 5$

$$g(x): \begin{aligned} g(1) &= 2(1)^2 + 1 = 3 \\ g(5) &= 2(5)^2 + 1 = 51 \\ \frac{\Delta g}{\Delta x} &= \frac{51 - 3}{5 - 1} = \frac{48}{4} = 12 \end{aligned}$$

(b) The average rate of change for f was the same for both (i) and (ii) but was not the same for g . Why is that?



Exercise #3: Consider the trinomial $2x^2 + 13x + 20$. We want to write it as the product of two binomials, in other words, reverse what we did in Exercises #1 and #2.

(a) Fill in the missing blanks with the only pair that makes sense (that is a smart guess).

$$(2x \quad + \quad)(x \quad + \quad)$$

(b) Why does it make sense that both of the binomials will be addition (as shown in (a))?

Because of $+20$ they must be both $+$ or both $-$.
But, because the $13x$ is positive, they must be both positive.

(c) List pairs of factors that can produce a 20.

- 1×20 -1×-20
- 2×10 -2×-10
- 4×5 -4×-5

(d) Try various pairs from (c), checking only that the linear terms will sum to $13x$ until you find the correct factorization.

$$(2x + 4)(x + 5)$$

$$\begin{array}{r} 2x^2 + 10x + 4x + 20 \\ \hline 2x^2 + 14x + 20 \end{array}$$



Exercise #1: Let's revisit a two-way frequency chart we saw in the last lesson. In this study, 52 graduating seniors were surveyed as to their post-graduation plans and then the results were sorted by gender.

Let the following letters stand for the following events.

- M = Male F = Female
- C = Going to College N = Not going to college

	Gender		Total
	Male	Female	
Going to College	16	13	29
Not Going to College	14	9	23
Total	30	22	52

If a person was picked at random, find the probability that the person was

(a) a female, i.e. $P(F)$

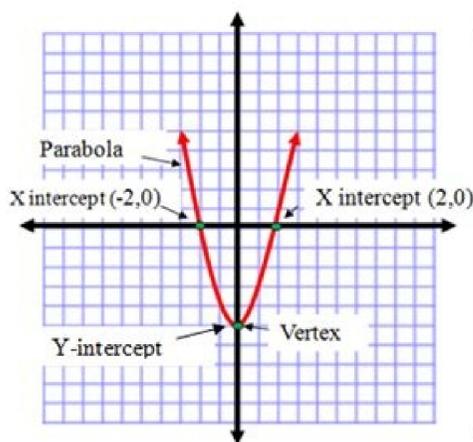
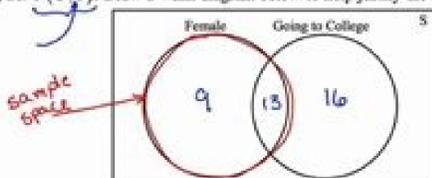
$$\frac{n(F)}{n(S)} = \frac{22}{52} \approx 0.42$$

(b) going to college $P(C)$

$$P(C) = \frac{n(C)}{n(S)} = \frac{29}{52} \approx 0.56$$

(c) going to college given they are female, i.e. $P(C|F)$. Draw a Venn diagram below to help justify the ratio that you give as the probability.

$$P(C|F) = \frac{13}{22} = 0.59$$



This parabola opens up and can be classified as **concave up**.

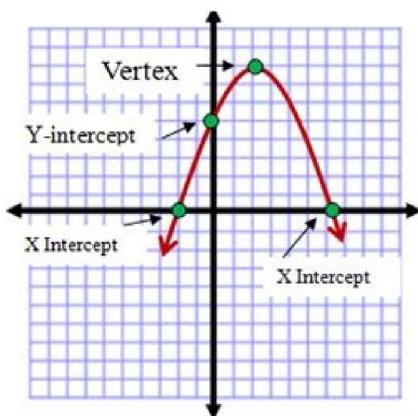
All parabolas that **open up** will have a **positive "a"** value.

The vertex is the lowest point or the **minimum point**.

This parabola opens down and can be classified as **concave down**.

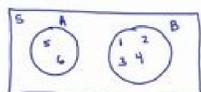
All parabolas that **open down** will have a **negative "a"** value.

The vertex is the highest point or the **maximum point**.



Exercise #3: Consider rolling a single six-sided die and recording the result. Let set A be the event of rolling a number greater than 4 and let set B be the complement of set A.

(a) Draw a Venn Diagram that illustrates the sample space, S, and sets A and B.



(b) Find $P(A)$ and $P(B)$.

$$P(A) = \frac{n(A)}{n(S)}$$

(c) What is true of the sum $P(A) + P(B)$?

(d) Prove that the sum of the probability of an event with the probability of its complement will always be 1.



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